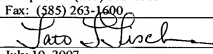


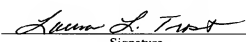


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TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/579,670
		Filing Date	February 1, 2007
		First Named Inventor	Hashimoto et al.
		Group Art Unit	1632
		Examiner Name	Unknown
Total Number of Pages in This Submission	8 (and 43 References)	Attorney Docket Number	201487/1180

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	Filing Date		2007-02-01
	First Named Inventor	HASHIMOTO et al.	
	Art Unit		
	Examiner Name		
Attorney Docket Number		201487/1180	

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	1	53-137198	JP		1978-11-30	SUZUKI et al.		<input checked="" type="checkbox"/>
	2	55-16203	JP	A	1980-02-04	SUZUKI et al.		<input checked="" type="checkbox"/>
	3	57-15696	JP	B2	1982-04-01	HIZUKA et al.		<input checked="" type="checkbox"/>

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Art Unit		
Examiner Name		
Attorney Docket Number	201487/1180	

4	57-173745	JP	A	1982-10-26	SHIONO et al.		<input checked="" type="checkbox"/>
5	57-54742	JP	B2	1982-11-19	SUZUKI et al.		<input checked="" type="checkbox"/>
6	58-30537	JP	B2	1983-06-29	SUZUKI et al.		<input checked="" type="checkbox"/>
7	58-36736	JP	B2	1983-08-11	KUBO et al.		<input checked="" type="checkbox"/>
8	59-27255	JP	A	1984-02-13	SHIONO et al.		<input checked="" type="checkbox"/>
9	59-133454	JP	A	1984-07-31	OGURA et al.		<input checked="" type="checkbox"/>
10	61-7258	JP	B2	1986-03-05	HIKIMA et al.		<input checked="" type="checkbox"/>
11	1-22898	JP	B2	1989-04-28	UEHARA et al.		<input checked="" type="checkbox"/>
12	2-193059	JP	A	1990-07-30	SAKATA et al.		<input checked="" type="checkbox"/>
13	5-23198	JP	A	1993-02-02	NUMATA et al.		<input checked="" type="checkbox"/>
14	5-41999	JP	A	1993-02-23	SEKINE et al.		<input checked="" type="checkbox"/>

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			Filing Date	2007-02-01
			First Named Inventor	HASHIMOTO et al.
			Art Unit	
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	15	5-93692	JP	A	1993-04-16	KARUBE et al.		<input checked="" type="checkbox"/>
	16	5-137597	JP	A	1993-06-01	MAEDA et al.		<input checked="" type="checkbox"/>
	17	5-252994	JP	A	1993-10-05	NUMATA et al.		<input checked="" type="checkbox"/>
	18	6-41928	JP	B2	1994-06-01	KITAGAWA et al.		<input checked="" type="checkbox"/>
	19	7-167824	JP	A	1995-07-04	KARUBE et al.		<input checked="" type="checkbox"/>
	20	8-20401	JP	B2	1996-03-04	KARUBE et al.		<input checked="" type="checkbox"/>
	21	8-196295	JP	A	1996-08-06	ABEMATSU et al.		<input checked="" type="checkbox"/>
	22	8-211011	JP	A	1996-08-20	ABEMATSU et al.		<input checked="" type="checkbox"/>
	23	9-297105	JP	A	1997-11-18	SUDA et al.		<input checked="" type="checkbox"/>
	24	11-125600	JP	A	1999-05-11	KARUBE et al.		<input checked="" type="checkbox"/>
	25	19714219	DE	A1	1998-08-10	FRIEDRICH et al.		<input checked="" type="checkbox"/>



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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	BURMOLLE et al., "Presence of N-Acyl Homoserine Lactones in Soil Detected by a Whole-Cell Biosensor and Flow Cytometry," Microb. Ecol. 45(3):226-236 (2003)	<input type="checkbox"/>
	2	CHAUDRI et al., "Response of a Rhizobium-Based Luminescence Biosensor to Zn and Cu in Soil Solutions from Sewage Sludge Treated Soils," Soil Biol. Biochem. 32:383-388 (2000)	<input type="checkbox"/>
	3	D'SOUZA, S.F., "Microbial Biosensors," Biosens. Bioelectron. 16:337-353 (2001)	<input type="checkbox"/>
	4	GU & CHANG, "Soil Biosensor for the Detection of PAH Toxicity Using an Immobilized Recombinant Bacterium and a Biosurfactant," Biosens. Bioelectron. 16:667-674 (2001)	<input type="checkbox"/>
	5	GUERRIERI et al., "A Disposable Amperometric Biosensor for Rapid Screening of Anticholinesterase Activity in Soil Extracts," Analyst 127(1):5-7 (2002)	<input type="checkbox"/>
	6	KARUBE, I., "Hybrid Biosensors for Clinical Analysis and Fermentation Control," Methods Enzymol. 137:131-138 (1988)	<input type="checkbox"/>
	7	KARUBE, I., "Microbial Sensor," J. Biotechnol. 15:255-266 (1990)	<input type="checkbox"/>
	8	KARUBE et al., "Microbiosensors," J. Biotechnol. 15:267-282 (1990)	<input type="checkbox"/>
	9	KHALIL et al., "A Comparison of Sole Carbon Source Utilization Patterns and Phospholipid Fatty Acid Profiles to Detect Changes in the Root Microflora of Hydroponically Grown Crops," Can. J. Microbiol. 47(4):302-308 (2001)	<input type="checkbox"/>

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10	MEYER et al., "Nitrification and Denitrification Near a Soil-Manure Interface Studied with a Nitrate-Nitrite Biosensor," Soil Sci. Soc. Am. J. 66:498-506 (2002)	<input type="checkbox"/>
11	MILLER et al., "Biological Sensor for Sucrose Availability: Relative Sensitivities of Various Reporter Genes," Appl. Environ. Microbiol. 67(3):1308-1317 (2001)	<input type="checkbox"/>
12	OWNLEY et al., "Identification and Manipulation of Soil Properties to Improve the Biological Control Performance of Phenazine-Producing Pseudomonas fluorescens," Appl. Environ. Microbiol. 69(6):3333-3343 (2003)	<input type="checkbox"/>
13	RASMUSSEN et al., "Application of a mer-lux Biosensor for Estimating Bioavailable Mercury in Soil," Soil Biol. Biochem. 32:639-646 (2000)	<input type="checkbox"/>
14	SHRIVER-LAKE et al., "New Horizons: Explosive Detection in Soil Extracts with a Fiber-Optic Biosensor," Field Anal. Chem. Tech. 4(5):239-245 (2000)	<input type="checkbox"/>
15	TIBAZARWA et al., "A Microbial Biosensor to Predict Bioavailable Nickel in Soil and Its Transfer to Plants," Environ. Pollut. 113:19-26 (2001)	<input type="checkbox"/>
16	WINDING et al., "Viability of Indigenous Soil Bacteria Assayed by Respiratory Activity and Growth," Appl. Environ. Microbiol. 60(8):2869-2875 (1994)	<input type="checkbox"/>
17	DROBNIKOVA et al., "Use of Oxygen Electrode for Measuring Respiration in a Soil Suspension," Folia Microbiologica. 16(6):511 (1971)	<input type="checkbox"/>
18	Supplementary European Search Report dated May 4, 2007.	<input type="checkbox"/>

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Art Unit	
Examiner Name	
Attorney Docket Number	201487/1180

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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- ☐ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☒ None

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	July 10, 2007
Name/Print	Tate L. Tischner	Registration Number	56,048

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